

3505 HUTCHINSON ROAD CUMMING, GA 30040-5860, USA

STRIDE® SE3 SERIES INDUSTRIAL UNMANAGED ETHERNET SWITCHES











 ϵ



RoHS Compliant

Stride SE3 Unmanaged Models					
Part Number	RJ45 10/100	RJ45 GbE	Fiber	Input Power (Max.)	Operating Temperature
SE3-SW5U	5	-	-	1.2 W	-10 to +65°C [14 to 149°F]
SE3-SW5U-T	5	-	-	1.2 W	-40 to +75°C [-40 to 167°F]
SE3-SW8U	8	-	-	2.2 W	-10 to +65°C [14 to 149°F]
SE3-SW8U-T	8	-	-	2.2 W	
SE3-SW5UG-T	-	5	-	6.6 W	
SE3-SW8UG-T	-	8	-	9.2 W	
SE3-SW5U-1C1-T	4	-	1 SC	5W	
SE3-SW5U-1T1-T	4	-	1 ST	5W	
SE3-SW6U-2C1-T	4	-	2 SC	6W	-40 to +75°C [-40 to 167°F]
SE3-SW6U-2T1-T	4	-	2 ST	6W	
SE3-SW7U-2P-T	5	-	2 SFP*	8W	
SE3-SW5UG-1P-T	-	4	1 SFP*	5.6 W	
SE3-SW10UG-2P-T	-	8	2 SFP*	12W	
SE3-SW16UG-4P-T	-	12	4 SFP*	15.4 W	
* Optional SFP modules sold separately.					

Power Details			
Power Input	Redundant input terminals, removable terminal block		
Input Voltage	Class 2 power supply: 12-48 VDC		
Reverse Power Protection	Yes		
Power Consumption	Refer to Models table		
Relay Contact	24VDC, 1A resistive, open on fault (not present on SE3-SW5U, SE3-SW5U-T)		

RJ45 Ports			
Ethernet Compliance	IEEE 802.3i, 802.3u, 802.3x for 10/100 Ethernet IEEE 802.3ab for Gigabit Ethernet		
Auto-Crossover	Yes, allows you to use straight-through or crossover wired cables		
Auto-Sensing Operation	Yes, full and half duplex		
Auto-Negotiating Speed	Yes		
Flow Control	IEEE 802.3x flow control, back pressure flow control		
Cable Requirements	10BaseT: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm (100m) 100BaseTX: 2-pair UTP/STP Cat. 5 cable EIA/TIA-568 100-ohm (100m) 1000BaseTX: UTP/STP Cat.5/5E cable; EIA/TIA-568 100-ohm (100m)		
Max. Cable Distance	100m [328ft]		

SFP Ports			
Ethernet Compliance	IEEE 802.3, 802.3u, 802.3x for 10/100 Ethernet IEEE 802.3ab, 802.3z for Gigabit Ethernet		
SFP (pluggable) ports accept 100/1000 Mbps Mini-GBIC (SFP) transceivers. See SFP module datasheet for optional fiber transceiver specifications			



NOTE: DOWNLOAD USER MANUAL SE3-USER-M FROM THE PRODUCT MANUALS AREA OF AUTOMATIONDIRECT.COM FOR ADDITIONAL DETAILS.

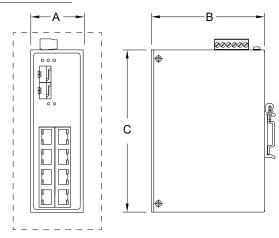
General Specifications					
Processing Type	Store and forward				
Devices Supported	All IEEE 802.3 compliant devices are supported				
	1K	SE3-SW5U, SE3-SW5U-T, SE3-SW8U, SE3-SW8U-T			
MAC Addresses	8K	SE3-SW5UG-T, SE3-SW8UG-T, SE3-SW7U-2P-T, SE3-SW5UG-1P-T, SE3-SW10UG-2P-T, SE3-SW16UG-4P-T			
	2K	SE3-SW5U-1C1-T, SE3-SW5U-1T1-T, SE3-SW6U-2C1-T, SE3-SW6U-2T1-			
Memory Buffer	448Kbits	SE3-SW5U, SE3-SW5U-T, SE3-SW8U, SE3-SW8U-T, SE3-SW5U-1C1-T SE3-SW5U-1T1-T, SE3-SW6U-2C1-T, SE3-SW6U-2T1-T			
метогу витег	1Mbit	SE3-SW5UG-T, SE3-SW5UG-1P-T			
	4Mbits	SE3-SW8UG-T, SE3-SW7U-2P-T, SE3-SW10UG-2P-T, SE3-SW16UG-4P-T			
Packet Forwarding Rate	14.88 Kpps for Ethernet ports 148.8 Kpps for Fast Ethernet ports 14.888 Kpps for Gigabit Ethernet ports				
Jumbo Frame Support	9.6 Kbytes	SE3-SW8UG-T, SE3-SW7U-2P-T, SE3-SW10UG-2P-T, SE3-SW16UG-4P-T			
Јитоо гтате Зиррогі	10Kbytes	SE3-SW5UG-T, SE3-SW5UG-1P-T			
Storage Temperature Range	-40 to +85 °C (-40 to +185 °F)				
Humidity (Non-Condensing)	5 to 95% RH				
Environmental Air	No corrosive gases permitted				
Vibration, Shock & Freefall	IEC60068-2-6, -27, -32				
EMI Emissions	FCC Part 15 Subpart B Class A, CE EN55032/EN61000-6-4 Class A				
EMS	CE EN55035/EN61000-6-2 Class A: IEC61000-4-2 (ESD), IEC61000-4-3 (RS), IEC61000-4-4 (EFT), IEC61000-4-5 (Surge), IEC61000-4-6 (CS), IEC61000-4-8 (Magnetic Field)				
RoHS	RoHS (Pb free) compliant				
Packaging and Protection	Metal case, IP30				
Hazardous Locations	ANSI/ISA 12.12.01 (Class I, Div.2)	SE3-SW5U-G-1, SE3-SW5U-1C1-1, SE3-SW5U-111-1, SE3-SW6U-2C1-1,			
	FCC, CE	All			
Agency Approvals	UL 61010-1, SE3-SW5U, SE3-SW5U-T, SE3-SW8U, SE3-SW8U-T, SE3-SW5UG-T, 61010-2-201 SE3-SW8UG-T, SE3-SW7U-2P-T, SE3-SW10UG-2P-T, SE3-SW16UG-4F				
	UL 508 SE3-SW5U-1C1-T, SE3-SW5U-1T1-T, SE3-SW6U-2C1-T, SE3-SW6U-2T1-T				

Front Panel LEDs			
LED	State	Description	
PWR1/PWR2	On	Power connected and operational	
FWKI/FWK2	Off	No voltage	
FAULT	On	Power input 1 or 2 is inactive	
	Off	Power input 1 and 2 are both functional	
	On	Indicates that there is a proper Ethernet connection (link) between the port and anoth Ethernet device, but no communications activity is detected.	
RJ45*/SC/ST/SFP Port LINK/ACT	Blinking	Indicates that there is a proper Ethernet connection (link) between the port and anothe Ethernet device, and that there is communications activity.	
	Off	Indicates that there is not a proper Ethernet connection (link) between the port and another Ethernet device. Make sure that each end of the cable has been plugged in securely.	
* Upper LED indicates connection at highest available speed on RJ45 ports.			

SC/ST Fiber Port: (100BaseFX multimode)			
Optimal Fiber Cable 50/125 or 62.5/125 μm			
Center Wavelength	1310 nm		
	Transmitter power into 50/125 cable (dBm): -20 min, -14 max		
Multimode	Transmitter power into 62.5/125 cable (dBm): -23.5 min, -14 max		
	Receiver sensitivity (dBm): -32		
Nominal Max. Distance	2km [1.24 mi]		
Eye Safety (laser) IEC 60825-1, Class 1; FDA 21 CFR 1040.10 and 1040.11			

SE3-SW5UG-1P-T DIP Switch Settings					
DIP Switch	DIP Switch Description ON OFF				
1	Energy Efficient Ethernet	Enable	Disable		
2	SFP Speed	100Mbps	1Gbps		

Dimensions:



Installation:

These devices are open-type. Units rated for hazardous locations are meant to be installed in an enclosure which is only accessible with the use of a tool and suitable for the environment when installed in Class 1, Division 2 Hazardous Locations.



WARNING: The following information applies when operating approved models of this device in hazardous locations: Suitable for use in Class I, Division 2, Groups A, B, C and D Hazardous Locations, or nonhazardous locations only.

WARNING: EXPLOSION HAZARD

- Do not disconnect equipment while the circuit is live or unless the area is known to be free of ignitable concentrations.
- Substitution of any component may impair suitability for Class I, Division 2.

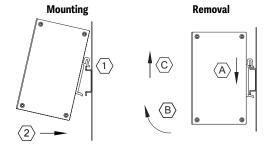
DIN Rail Mounting:

The switch can be mounted on a standard 35×7.5 mm height DIN rail (Standard: CENELEC EN50022) installed either vertically or horizontally. DIN rail mounting steps:

- 1. Hook top back of unit over the DIN rail.
- 2. Push bottom back onto the DIN rail until it snaps into place.

DIN rail removal steps:

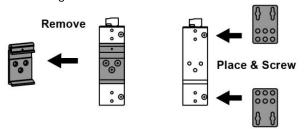
- A. Push the unit down to free the bottom of the DIN rail.
- B. Rotate the bottom of the unit away from the DIN rail.
- C. Unhook top of unit from DIN rail.



Wall Mounting:

Follow the steps below to mount the switch using the wall mounting bracket. Bracket details and hole patterns differ between models.

- 1. Remove the DIN rail bracket by loosening the screws.
- 2. Attach the wall mounting brackets on the top and bottom of the switch.
- 3. Locate screws in the wall based on the positions of the slotted screw holes on the mounting brackets and attach the switch to the wall.



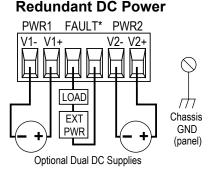
Dimensions				
Part Number	Weight	Width (A)	Depth (B)	Height (C)
rait Nulliber	kg [lb]		mm [inches]	
SE3-SW5U	0.30 t0 661	26 [1.0]	75 [3.0]	95 [3.7]
SE3-SW5U-T	0.30 [0.66]			
SE3-SW8U	0.34 [0.74]	40 [1.6]	70 [2.8]	95 [3.7]
SE3-SW8U-T	0.34 [0.74]			
SE3-SW5UG-T	0.45 [0.99]	30 [1.2]	95 [3.7]	140 [5.5]
SE3-SW8UG-T	0.52 [1.14]			
SE3-SW5U-1C1-T		30 [1.2]	99 [3.9]	142 [5.6]
SE3-SW5U-1T1-T	0.50 (4.40)			
SE3-SW6U-2C1-T	0.50 [1.10]			
SE3-SW6U-2T1-T				
SE3-SW7U-2P-T	0.57 [1.24]			
SE3-SW5UG-1P-T	0.59 [1.30]			
SE3-SW10UG-2P-T	0.71 [1.56]	46 [1.8]		
SE3-SW16UG-4P-T	1.16 [2.57]	67 [2.6]		

Power Wiring:

The switch can be powered from the same DC source that is used to power your other devices. To maintain the UL listing, this source must be a Class 2 power supply. A DC voltage in the range of 12 to 48 VDC needs to be applied between the P1+ terminal and the P1- terminal as shown below. The chassis screw terminal should be tied to panel or chassis ground. To reduce down time resulting from power loss, the switch can be powered redundantly with a second power supply as shown below. A recommended DC power supply is AutomationDirect.com part number PSL-24-030.



Wire Size Range 20 – 18 AWG Wire Strip Length 7mm



*Fault Contact opens when in a faulted state (Not present on some models)



Note: If only one power supply is used, jumper V1 + TOV2 + ANDV1 - TOV2 - TOELIMINATE POWER FAULT ALARM.

Communication Ports Wiring:

The switch provides connections to standard Ethernet devices such as PLCs, Ethernet I/O, industrial computers and much more. Use data-quality (not voice-quality) twisted pair cable rated Cat5e (or better) with standard RJ45 connectors. Straight-through or crossover RJ45 cable can be used for all devices which are connected to the switch, as all the ports are capable of auto-mdi/mdix-crossover detection.

The RJ45 Ethernet port connector bodies on the switch are metallic and connected to the Chassis GND terminal. Therefore, shielded cables may be used to provide further protection. Electrical isolation is also provided on the Ethernet ports for increased reliability.

Additional Help and Support

- For additional product support, specifications, and installation, download User Manual SE3-USER-M from the Product Manuals area of www.AutomationDirect.com.
- For additional technical support and questions, call our Technical Support team @ 770-844-4200.

